Claims

1. A seat component to prevent whiplash injury during a rapid motion change of a vehicle comprising

- means allowing a displacement of the seat (1) and a person sitting thereon backwards (6) in relation to the direction of movement at the motion change,

wherein the seat component (10) is characterized in that said means comprise

-- a body (11, 18) to be affixed to or being part of the seat (1),

- a slide element (16) affixed to the vehicle (2, 5) and being in guiding contact with said body (11, 18) to guide a translational displacement (6) of the seat (1) over a predetermined distance, and further comprise

- a trigger system (13) to detect a acceleration threshold,

- a release mechanism (14) controlled through the trigger system (13) to enable said translational displacement (6),

- a damping component (17, 27) to damp said translational displacement (6),

wherein the trigger system (13) opens the release mechanism (14) upon detection of an acceleration value above a predetermined threshold.

2. The seat component according to claim 1, wherein the trigger system (13) is mounted with the body (11, 18) to detect a acceleration threshold and comprises a mass-spring system.

3. The seat component according to claim 1, wherein the trigger system (13) comprises an accelerometer.

4. The seat component according to claim 1, wherein the trigger

system (13) uses an acceleration signal from an external accelerometer.

5. The seat component according to one of claims 1 to 4, wherein the release mechanism (14) comprises a mechanical stop or lever.

6. The seat component according to one of claims 1 to 5, wherein the damping component (17, 27) is a metal profile with two free ends (29) which are attached to the body (11, 18) and the slide element (16).

7. The seat component according to claim 6, wherein the free ends (29) are pivotally mounted to the body (11, 18) and the slide element (16) through pins (28).